

DBR No 40/16-17
DATED 20/3/2017

M.A.R. 57 (Rule 116)

Measurement Book

No. A/10 3755

Serial No.
Name of work: Widening & Asphalting of main road from Sampigehalli Agrahara Village in ward no. 05, Byatasayanapura sub division
Name of Contractor of nature of Agency: Sai G.N. Ramesh
Date of commencement of work: 24/02/2017

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Name of work: Widening & Asphalting of main road from Sampigehalli Agrahara Village in ward no. 05, Byatasayanapura sub division. Estimate cost: 140.00 lakhs, Job Code: 005-16-000023 P. Code: P3089, CMC & TMC Grant Administrative Sanction no: BBMP/JC/YZ/AS/01/16-17 Dt: 10-06-2016 Technical Sanction no: BBMP/CE/YZ/TS/12/16-17 Dt: 10-06-2016 Contractor Name: G.N. Ramesh Work Order no: EE (Project)/Yak Zone/100/30/16-17 Dt: 04-02-17 Agreement no: EE (P)/YZ/Agg/31/16-17 Dt: 4-2-17 Date of Commencement: 04-02-2017 Date of Completion: 28-02-2017						

MEASUREMENT BOOK

Da	Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
			Number	Length	Breadth	Depth		
1	1	2	3	4	5	6	7	8
		<u>Item No-01</u>						
		Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2mtr & an average lift upto 1.5m excavated surface levelled & sides neatly dressed the disposed earth to be levelled neatly after breaking of clods complete as per specification.						
		Qty Vide Page no (2) of enclosed excel sheet					✓ 417.96 Cum	
		@ rate of Rs. 168-62/-						
								Rs. 70481.10

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Measurement Book

No. A/10 3756

Serial No.....

Name of work.....

From..... To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	2	3	4	5	7	8
	<u>Item No-02</u> Providing & laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220 kgs. with 40mm & down size graded granite metal coarse aggregate @ 0.892 Cum & fine aggregate @ 0.465 Cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted in foundation including cost of all material, labour, HBM & machinery, curing complete as per specification. Qty Vide Page no (3) of enclosed excel sheet					
					3.26 Cum	

MEASUREMENT BOOK

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M.A.R. 57 (Rule 116)

Measurement Book

No. A10

3757

Serial No.

Name of work

Name of Contractor of nature of Agency

Date of commencement of work

Date

1

2

Full description, etc, of work

Number

3

Length

4

Breadth

5

Depth

6

Contents

7

Reference to last Measurement

8

Item No-04 ✓

Providing & Constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20cm high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specification.

MEASUREMENT BOOK

D: Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number 3	Length 4	Breadth 5	Depth 6	
1	Qty upto 125% Qty vide Page no (5) of enclosed excel sheet				7.97 Cum	8
	Qty upto 125% @ rate of Rs. 3920.28/-				3.43 Cum	
	Qty above 125% @ rate of Rs. 4207.43/-				4.54 Cum	Rs. 13426.96 13446/-
						Rs. 19114.37 19101/-
					Total Amount:	32541.33
						32547/-

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Measurement Book

No. A/10 3758

Serial No. From To

Name of Contractor of nature of Agency

Date of commencement of work

Date	Full description, etc, of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	<u>Item No-05</u> ✓ Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after racking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specification. Qty Vide Page no 6 8 enclosed excel sheet @ rate of Rs. 94.18/-					
					14.40 Sqm	✓
					Rs. 1356.19	✓
					At	

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No-06						
	Providing & laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20mm & down size graded granite metal coarse aggregate @ 0.878 cum & fine aggregate @ 0.459 cum machine mixed, concrete laid in layers not exceeding 15 cm thick, well compacted in foundation plinth & cills, including cost of all material, labour, HM of machinery, curing, complete as per specification.						
	Qty Vide Page no 7					0.16 Cum	
	Enclosed excel sheet						
	@ rate of Rs. 5205.20/-						
							Rs. 832.83

Measurement Book

No. A10 3759

Serial No.:

Name of work:

Name of Contractor of nature of Agency.

Date of commencement of work.

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Qty Vide Page no (10)

8 enclosed card sheet

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	Qty Up to 125% @ rate of Rs. 135.87/-	3	-	-	-	612.50 Cum	✓
	Qty above 125% @ rate of Rs. 137.38/-	-	-	-	-	Rs. 83220.38	✓
						2365.26 Cum	✓
						Rs. 324949.50	✓
						384939/-	✓
						Total Amount Rs. 408169.88	✓
						Rs. 408159.38	✓

Item No-08

Construction of granular sub-base by providing close-graded material, mixing in a mechanical mix plant at 0m coverage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface & compacting with vibratory

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No. A/10 3760

Serial No.

Name of work.

Name of Contractor of nature of Agency. From To

Date of commencement of work.

Date	Full description, etc. of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	2	3	4	5	6	8
	proven seller to achieve the desired density, complete as per specification Qty Vide page no (13) of enclosed excel sheet @ rate of Rs. 1534.80/-				7	
					1615.22 Cum	
					Rs. 2576154.85	
					At 2576153/-	

MEASUREMENT BOOK

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No. A/10 3761

Serial No

Name of work..... From To

Name of Contractor of nature of Agency...

Date of commencement of work.....

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement , 8
		Number	Length	Breadth	Depth		
1	Item No-10 Providing & applying primer coat with S. B. bitumen emulsion on prepared surface of granular base such as with including clearing of road surface, spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specification. Qty. Vide Page No. (17) of enclosed excel sheet @ rate of Rs. 26.61 /-	3	4	5	6	7	8
						8376.11 Sqm	Rs. 222886.15

MEASUREMENT BOOK

MEASUREMENT BOOK								Reference to last Measurement 8
D	Date	Full description, etc. of work	Dimensions				Contents	
			Number	Length	Breadth	Depth		
	1	2	3	4	5	6	7	
		Item No 11 ✓ Providing & applying black coat using 80/100 grade bitumen, heating on prepared black topped surfaces at 2.5 kg per 10 Sqm, heating on prepared black topped with spray set (excluding cleaning of road bitumen in boiler fitted with spray set (excluding cleaning of road bitumen in boiler fitted with spray set, labour, 110m of machines susacc) including (25) of complete as per specification) Qty Vide Page no (25) of enclosed excel sheet (@ rate of Rs. 11.26/-)						1800-11 Sqm Rs. 203476.1 20

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Measurement Book

No. A/10 3762

Serial No.

Name of work.

..... From To

Name of Contractor of nature of Agency

Date of commencement of work.

Date	Full description etc. of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	2	3	4	5	6	8
	Item No. 12 Providing & laying dense bituminous macadam 50mm to 75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH Capacity 11MP with mechanical rollers 11 lbs mixed with VG 30 grade bituminous binder & transporting the hot mix to work site, laying to the required grade, level & alignment, rolling with smooth wheeled, vibratory & tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specification				7	

MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	2	3	4	5	7	8
	Qty Vide Page enclosed excel sheet no 288 @ rate of Rs. 6035.56/-				451.77 Cum	
	Item NO-13 Providing & laying bituminous concrete 40mm compacted thick with V4:30 Bitumen grade using 40-60 HMT using crushed aggregates of grading-II, pre mixed with bituminous binder at 6% mix & filler transporting the hot mix to work site, laying with a power finisher with to the required grade, level & alignment, rolling with smooth wheeled, vibratory & tandem rollers to achieve the desired compaction as per MORTH specification clause no. 509 complete				Rs. 2726671.31	

1923

Measurement Book

Serial No.

Name of work..... From..... To.....

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Date of commencement of work... .. *****

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2 in all respects as per specification Qty vide Page no (31) of enclosed excd sheet @ rate of Rs. 7298.97/-	3	4	5	6	7 361.41 Cum	8 Rs. 2637951.40 Rs. 2637920/- AC

2. 2. 37951.40

2637920

MEASUREMENT BOOK

Date	Full description, etc., of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	Item NO. 14 Road marking with Hot applied thermoplastic compound with reflectising glass beads on bituminous surface providing E. laying of hot applied thermoplastic compound 2.5 mm thick including reflectising glass beads at 250 gm per Sq.m area, thick run of 2.5 m in exclusive of surface applying glass beads as per IRC: 35 The finish surface to be level, uniform free from streaks & holes complete as per specification Qty Vide Page no (31) of enclosed card sheet @ rate of Rs. 448.44/-	3	4	5	7	8
					316.24 Sq.m	Rs. 141813.54

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No. A/10 3764

Serial No.

Name of work

Name of Contractor of nature of Agency.....

Date of commencement of work.....

From..... To.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	Item no 15 / Providing & fixing of reflective raised pavement marked (RPM) cat eyes / Road studs conforming to AS 1m 124280 type H, having reflective panels made of prismatic lens of total internal reflection. The prismatic lens should be electronically fixed (welded) to the body made of poly carbonate mould, with a height of 20mm size of 130mm x 105mm & reflecting area of 13.8cm with the slope of isosceles reflective surface with in the limit of 35 + 5 degree to the base on either side. The marker shape 11 display an initial minimum luminous intensity of 279 mcd/lux at an entrance angle	3	4	5	6	7	8

Sl. No.	Date	Full description, etc., of work	Dimensions				Contents	Reference to asst. Measurement
			Number	Length	Breadth	Depth		
1		2	3	4	5	6	7	8
		8 zero degree & observation angle of 0.2 degree The correct position values for 20 degree entrance & 0.2 degree observation angle will be 112 med/lux with color multiplying factor on either cases for white, yellow & red masters being 1.0, 0.68, 0.25 respectively. The RPN's should be fixed by using 2 numbers of polymers slabs using appropriate adhesive as recommended Qty. Vialc Pagerno (38) enclosed exc sheet Qty upto 12 5% @ rate of Rs. 307.15/- Qty above 12 5% @ rate of Rs. 389.87/-					900 cu Nos 731.00 Nos Rs. 224526.65 169.00 Nos Rs. 65212.00 Total Rs. 289738.68	

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Measurement Book

No. A/10 **3765**

Serial No.....

Name of work..... From..... To.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No-16						
	Reteo reflected traffic signs. Providing & fixing of setae reflectorised cautionary, mandatory & informatory sign as per revised IRC 61 2012 made of high intensity grade sheeting vide clause 800.1.3 fixed over Aluminium sheeting 1.5 mm thick supported on a mild steel angle iron post 75 mm x 75 mm x 6 mm firmly fixed to the ground by means of properly designed foundation with m/s grade cement concrete 45 cm x 45 cm x 60 cm, 60 cm below ground level as per approved drawing complete as per specifications						

MEASUREMENT BOOK

Dz	Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
			Number	Length	Breadth	Depth		
	1	2	3	4	5	6	7	8
		Qty Vide enclosed excel sheet (a. sale of Rs. 3967.38/-)	Page no (34) of				300 Nos	
		Extra Item No 01					Rs. 11902.14/-	
		Providing & fixing RCC precast cover slab of 100mm thick for drain in cement concrete m2o using graded jelly 20mm diameter with steel reinforcement including formwork, lift charges, curing & concrete finish surface on both sides etc complete as per drawing & direction of Engineer in -charge.						

Measurement Book

No. A/10 3766

Date of commencement of work.

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MEASUREMENT BOOK

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2 Agarapura Village	3	4	5	6	7	8

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Measurement Book

No. A/10 **3767**

Serial No.....

Name of work.....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

From..... To.....

Date	Full description, etc. of work	Dimensions			Contents	Reference to last Measurement
		Number	Length	Breadth		
1	2	3	4	5	7	8
	<u>Certificate :-</u> 1] Certified that the work has been completed satisfactorily 2] Certified that debris have been removed from workshop 3] Certified that there is no departmental issues with the Contractor <i>Rup Raut</i> AE <i>28/2/07</i>					

MEASUREMENT BOOK

Date	Full description, etc., of work	Dimensions				Contents	Reference to last Measurement
1	2	Number	Length	Breadth	Depth		
	Final Bill : 1,32,63,331						
	2% IT :						
	4% VAT :						
	1% CESS :						
	0.1% cef :						
	LR :						
	T/D :						
	Net payable:						